



# Science, Technology and Society

## 2015 Fall Course Offerings

Director: Professor Steve Cutcliffe

### CORE COURSES

**HIST 008-10 Technology in Modern America** 4 credits (SS)

Traces the evolution of modern American technology, including automobiles, aircraft, computers, nuclear weapons, television, space, pharmaceuticals, and biotechnology. Includes critiques of technology such as environmentalism. The interactions of technology and culture, society, politics, and the economy will also be addressed.

Professor Smith; T, R 9:20 - 10:35 a.m.

**STS 011-10 Technology and Human Values** 4 credits (SS)

Impact of technology on society in relation to ethical problems raised by the exploitation of technological innovations. Illustrations from history, social studies, philosophy, literature, and film.

Professor Goldman; T, R 9:20 - 10:35 a.m.

**STS, JOUR 124-10 Politics of Science** 4 credits (SS) *STS students can register without permission.*

Analysis of the multidimensional interaction between the federal government and the scientific community. Explores historical growth of the science-government connection, the scientific establishment both past and present, and the role of scientific advice to the White House and Congress. Also examines scientific ethics, public attitudes toward science, science-society interactions, and case studies of scientific controversies.

Professor Friedman; T, R 1:10 - 2:25 p.m.

**PHIL 228-10 Topics in the Philosophy of Science** 4 credits (HU)

Themes in the natural, life and social sciences. Must have completed one 100-level HU-designated course or have consent of instructor. Professor Bickhard; M 1:10 - 4:00 p.m.

**STS 381-10 Senior Seminar** 4 credits (SS) *Instructor permission required*

In-depth study of selected topics in science, technology, and society with special attention to methodological issues. Subject matter may vary from semester to semester. Intended for STS majors and minors, but open to others. Prerequisite: STS 11 or consent of program director.

### ELECTIVE COURSES

**ES, EES, GCP 002-10 Introduction to Environmental Science** 3 credits (NS)

Focuses on natural and human-induced drivers and consequences of environmental change. Exploring options for mitigating and adapting to environmental change in ecosystems, physical and social systems, we will examine such topics as biogeochemical cycles, population pressure, ecosystem diversity, productivity and food security, energy, water resources, climate change, pollution, ozone, urban issues and sustainability. Stresses interactions and interrelationships, using a series of case studies. Intended for any student with an interest in the environment. May be combined with EES 022 or EES 004 for 4 credits.

Professor Sahagian; T, R 2:35 - 3:50 p.m.

**ES, EES 004-10 The Science of Environmental Issues** 1 credits (NS)

Analysis of current environmental issues from a scientific perspective. The focus of the course will be weekly discussions based on assigned readings. Pre- or co-requisite: introductory-level course in EES.

Professor Anastasio

Section 10 - M 11:10 - 12:25 p.m.

Section 11 - W 11:10 - 12:25 p.m.

Section 12 - F 1:10 - 2:25 p.m.

**STS, MLL 097-10 Introduction to Science and Technology in China** 4 credits (HU)

Examine the rise of Chinese science and technology and its spread to the West by means of the "Silk Road." Research fields include Chinese traditional architecture, silk and sericulture, ceramics and metallurgy, paper making and printing.

**Professor Wang; M, W 12:45 – 2:00 p.m.**

**POLS, ES 107- The Politics of the Environment** 4 credits (SS)

A survey of the major environmental, resource, energy and population problems of modern society, focusing on the United States. The politics of man's relationship with nature, the political problems of ecological scarcity and public goods, and the response of the American political system to environmental issues.

**Professor Wurth; T, R 10:45 - 12:00 p.m.**

**JOUR, ES 125- Environment, the Public and the Mass Media** 4 credits (SS) *(Writing Intensive) Department permission required*

Extensive exploration of local, national and international environmental problems and their social, political and economic impacts. Analysis of mass media coverage of complex environmental issues and the media's effects on public opinion and government environmental policies. Examination of environmental journalism principles and practices in the United States and around the world. **Professor Friedman; T, R 10:45 - 12:00 p.m.**

**HMS, SOC 160-10 Medicine and Society** 4 credits (SS) *Open only to SOC and HMS students*

Health, illness, and the health professions from the sociological perspective. Social epidemiology, social psychology of illness, socialization of health professionals, organization of health care, patient-professional relationships and ethical issues in medical care. **Professor Lasker; T, R 9:20 - 10:35 a.m.**

**STS 181 Independent Study** 1-4 credits (HU / SS) *Instructor permission required*

**STS, HMS, HIST 196-10 Food and Health in Modern America** 4 credits (HU)

Explore the relationship between food and health in American history, with particular focus on the 19th-21st centuries. Key themes/questions examined will be the interconnection between American ideal of individualism and the popularity of alternative or lay health remedies; the privileging of nature as a curative force; public and governmental concerns with food purity and access; the scientific and popular framing of food as medicine; and the use of health and food consumerism as a marker of class status.

**Professor McGrath; M, W 2:35 - 3:50 p.m.**

**STS, GCP, CSE, EMC 252-10 Computers, the Internet, and Society** 3 credits (SS)

An interactive exploration of the current and future role of computers, the Internet, and related technologies in changing the standard of living, work environments, society and its ethical values. Privacy, security, depersonalization, responsibility, and professional ethics; the role of computer and Internet technologies in changing education, business modalities, collaboration mechanisms, and everyday life. **Professor Crane; T, R 2:35 - 3:50 p.m.**

**ES, HIST 315-10 American Environmental History** 4 credits (SS)

Relationship between Americans and their natural environment from the colonial period to the present: impact of European settlement, attitudes toward wilderness, role of technological development, rise of preservation and conservation movements, establishment of national parks, recent environmental protection legislation.

**Professor Cutcliffe; T, R 1:10 - 2:25 p.m.**

**IR 344-10 International Politics of Oil** 4 credits (SS) *IR Department Permission Required*

Historical influence of oil in international politics and the role it plays today. Focus on differing views of producers, such as Middle Eastern and Latin American states, and consuming nations, largely the economically developed Western states. Consent of department required.

**Professor Barkey; M, W 12:45 - 2:00 p.m.**

**POLS, ES 355-10 Environmental Justice and the Law** 4 credits (SS)

This course explores the various ways in which environmental law and policy can have discriminatory effects. It examines the rise and evolution of environmental justice movement, and the impact of environmental justice claims on administrative rule making at state and federal level. Reviewing the history of case law concerning environmental justice suits filed under the 1964 Civil Rights Act, it also examines the future of environmental justice in environmental law and policy.

**Professor Holland; T 4:10 - 7:00 p.m.**

**STS 391-10 Honors Thesis** 1 credits (ND) *Instructor permission required*

Preparation for honors research thesis (STS 392). Identification of topic, preliminary compilation of source materials, and preparation of a proposal. Program permission required.

**Professor Cutcliffe**